RS-232 56K
Ext Modem

User Manual

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1. Introduction

The Voice/Fax/Data Modem connects your computer to Internet, and all kinds of BBS, and other popular Fax / Modems. This manual describes the features, procedures of installations, and AT command set...etc. of this modem.

Indicators

POWER: Power on indicator.
DATA: DTR signal indicator.
OH: Off Hook.

Rear Panel

PHONE: Phone jack.
LINE: Telephone line jack.
RS-232: RS232 cable socket.
POWER: AC adapter input.
ON/OFF: Power switch

2. Features

Data

* ITU-T V.92(lite), ITU-T V.90
* ITU-T V.34, V.32bis, V.32, V.22bis, V.22
* Bell 103 & 212A
* V.44, V.42bis & MNP 5 (Data compression)
* V.42 & MNP2-4 (Error correction)

Fax

* V.17 (14400bps FAX)
* V.29 (9600bps FAX)
* V.27ter (4800bps FAX)
* Class 1

Voice

* Voice/Audio mode
* Full-Duplex speakerphone(optional)

Package Checklist

* One fax modem
* One piece of phone cable
* One piece of RS-232 cable
* One CD
* One Adapter

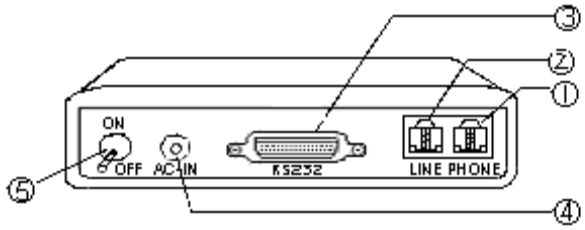
If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

3. Installation

3.1 Hardware Installation

**Do not power on your modem before your finished

the following installation.



1. Plug the male end of the RS-232 cable into the connector marked RS-232 ○,3

   on the back of the modem.

2. Plug the other end of this cable into the serial port on the back of your computer.

3. Plug the power cable into the AC-IN(or POWER) connector ○,4 on the back of the modem.

4. Plug the power adapter into a wall outlet.

5. Plug one end of the phone cable into the modem LINE jack ○,2. Plug the other end into the phone outlet.

6. To use telephone and the modem on the same line, plug one end of the optional phone cable into the PHONE

   jack ○,1 on the modem; plug the other end into the phone. Lift the telephone handset and listen for a

   DIALTONE to check the connection.

7. Turn your modem on ○,5 . The POWER lights should light up.

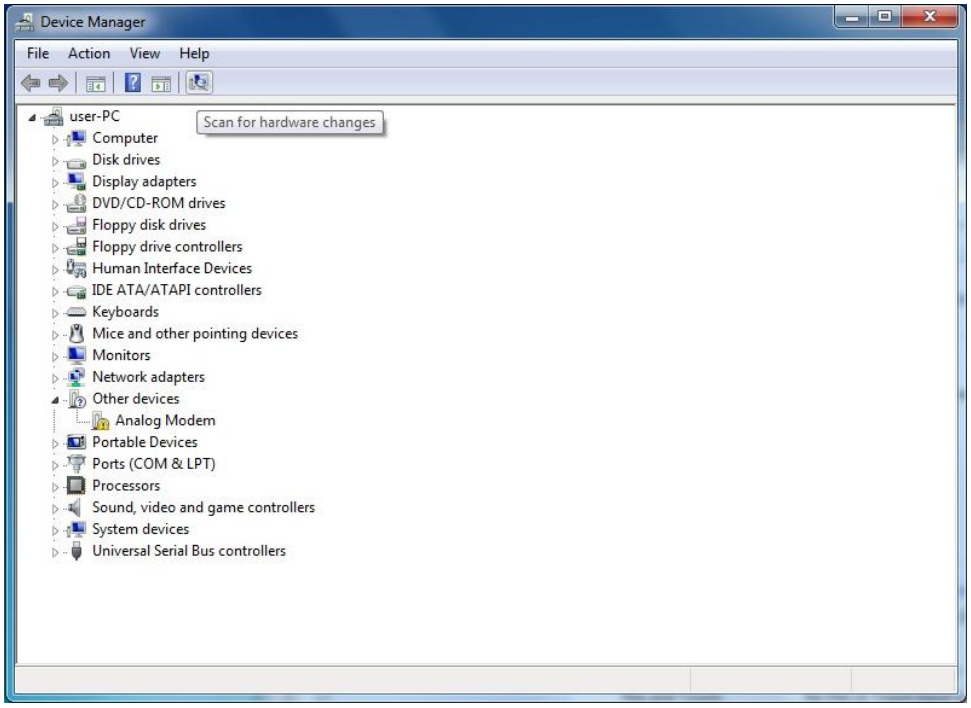
8. Turn your computer on.

3.2 Driver Installation

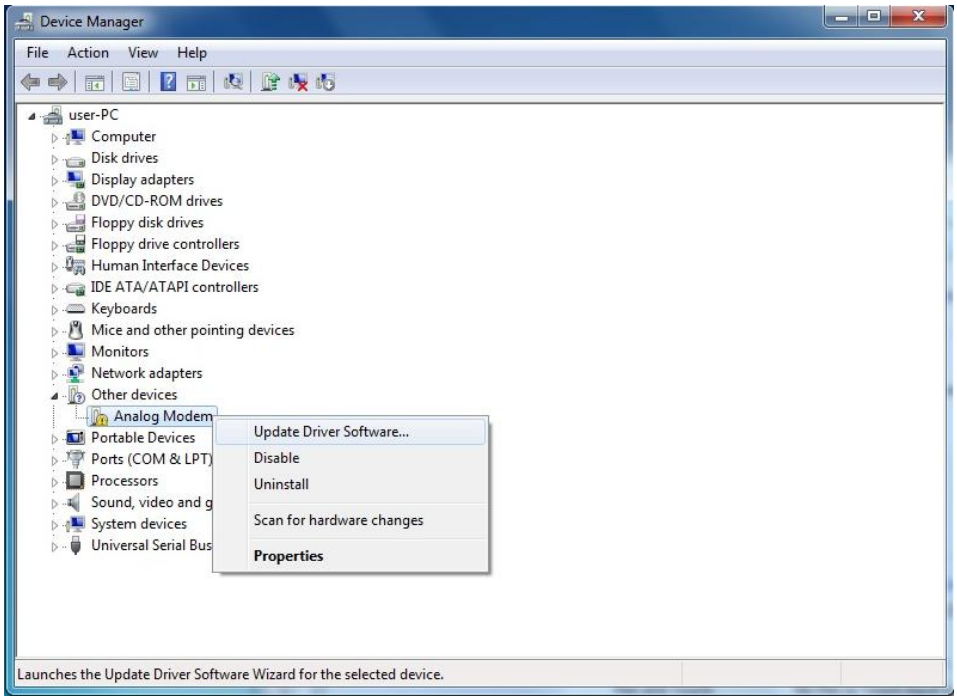
3.2.1 Installation Procedures for Windows 64-bits (XP/Win7/Vista)

If your computer is using Windows 64-bits (XP/Win7/Vista), please open and browse the related folder of CD. e.g. F:\Driver\Win7_64. There is a .INF file in the related folder for installation. You may refer to these following steps to install.

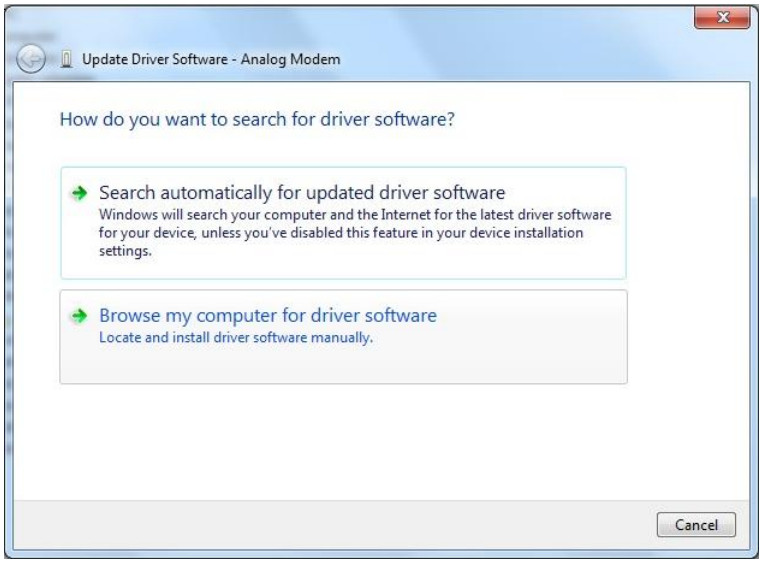
1. After Hardware Installation, switch on your computer and insert the driver CD into the CD-ROM. Open Device Manager of Windows. Click and run “Scan for hardware changes”.



2. The Device Manager will show a unknown device, such as Analog Modem. Move your mouse on this unknown device and click right key of mouse, and select **Update Driver Software**.



3. Select **Browse my computer for driver software**.


Update Driver Software - Analog Modem
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.
Cancel

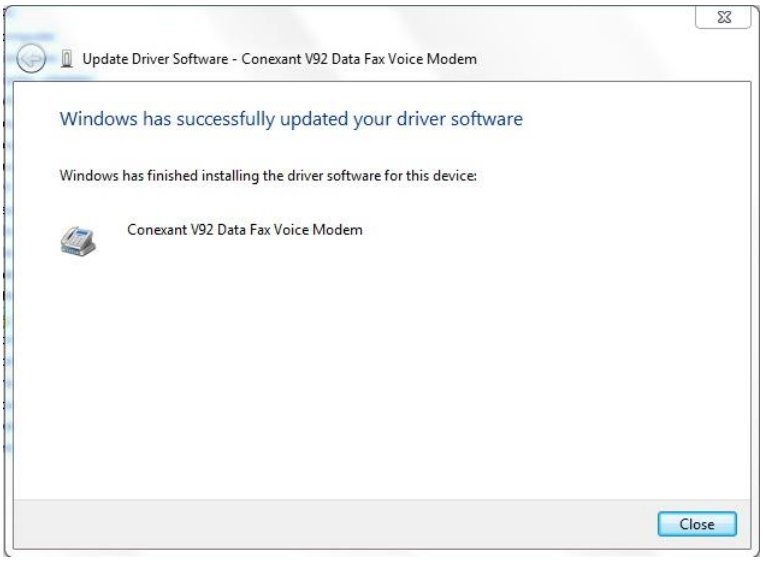
4. Click Browse and open the driver files. e.g., F:\Driver\Win7_64.

Update Driver Software - Analog Modem
Browse for driver software on your computer
Search for driver software in this location:
F:\DriverWIN7_64
Browse...
Include subfolders
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

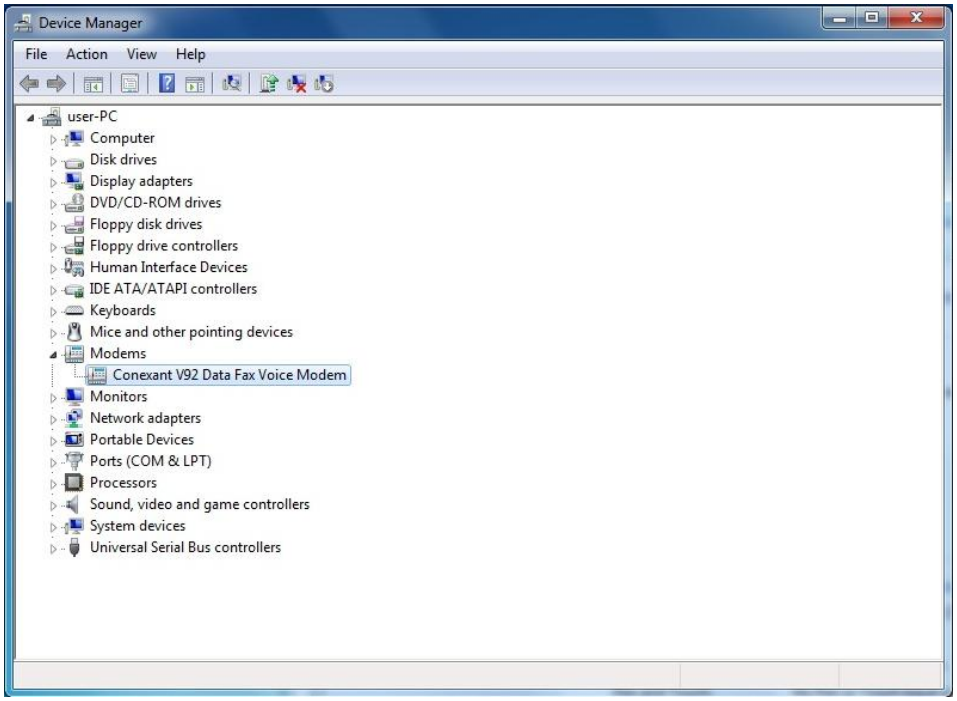
5. If windows pop out a warring message. Select **Install this driver software anyway** and continue to install.

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

6. Click **Close** to complete the installation.


Update Driver Software - Conexant V92 Data Fax Voice Modem
Windows has successfully updated your driver software
Windows has finished installing the driver software for this device:
Conexant V92 Data Fax Voice Modem
Close

7. When completed installation, the modem displayed in Device Manager.



3.2.2 Installation Procedures for Windows 32-bits (XP/Win7/Vista)

If your computer using Windows 32-bits (2K/XP/Win7/Vista), please open the related folder of CD. e.g., F:\Driver\Win2K_XP. There is a Setup.exe file in the related folder for installation. You may use the Wizard of installation CD to install.

4. Commands

Most people use the communication software programs to tell modems what to do. Therefore, you may not use the commands in this chapter. However, if you prefer to communicate with your modem directly, you can type the commands described below.

4.1 Typing Commands

* Use the BACKSPACE key to delete typing errors.
* Every command (except **A/** and +++) must begin with the **AT** or **at** prefix and be entered by pressing the <Enter> key. For example, to execute the **V** command, you would type **ATV** and press the <Enter> key.
* When you see an ***n***, replace the ***n*** with one of the letter or numeric options listed for that command. For example, for the ***En*** command, you might type **ATE1**.
*All defaults are based on the **&F** Hardware Flow Control template load in **NVRAM** when the modem is shipped.

4.2 AT Commands

A / Re-executes the last issued command. Used mainly to redial.

A Go off-hook and attempt to answer a call.

D*n*	**Dial**
0-9	DTMF digits 0 to 9
P	Pulse (rotary) dial
T	Tone dial
W	Wait for second dial tone (X3 or higher); linked to S6 register.

^ Toggles calling tone enable/disable.

E*n* **Command Echo**

E0 Disable command echo

E1 Enable command echo

H*n* **Disconnect (Hang-up)**

H0 Hang up (goes on-hook)

H1 Go off-hook

I*n* **Identification**

I 0 Report product code

I 2 Report “OK” or “ERROR”

I3 Report firmware revision

I4 Report OEM defined identifier string

I6 Report modem data pump model and internal code revision

M*n* **Speaker Control**

M0 Speaker is always off

M1 Speaker ON until CONNECT

M2 Speaker is always on.

M3 Speaker off during dialing and receiving carrier and turn speaker on during answering.

O*n* **Return to On-Line Data Mode**

O0 Go on-line

O1 Go on-line and retrain

P **Set Pulse Dial**

(for phone line that does not support touchtone dialing)

Z*n* **Soft Reset and Restore Profile**

Z0 Restore stored profile 0 after warm reset.

Z1 Restore stored profile 1 after warm reset.

&C*n* **Control Carrier Detect (CD)Signal**

&C0 CD override

&C1 Normal CD operations

&D*n* DTR Option

&D0 Ignore an on-to-off transition of DTR.

&D1 Switch to on-line command mode without disconnection.

&D2 Normal DTR operations.

&D3 Modem re-initialized. &Y determines which profile is loaded.

&F*n* Load Factory Configuration (Profile)

&W*n* Store Current Configuration

&W0 Store the current configuration as profile 0.

&W1 Store the current configuration as profile 1

.

4.3 S-Register Definitions

ATS? Read Selected S-Register.

This command reads and displays the selected S-Register. An S-Register can be selected by using the **ATS*n*** command.

S*r*=n Set Register *r* to *n*

S0 Number of Rings to Auto-Answer

The number of rings the modem waits for before it auto answers.

Range: 0-255 (rings)

Default: 0 (Country dependent)

S6 Wait Time before Blind Dialing

The time to pause after off-hook before blind dialing.

Range: 2-255 (rings)

Default: 2 (Seconds, Country dependent)

S7 Wait Time before Carrier Detect

The time to wait for a carrier from the remote modem before hanging up.

Range: 1-255

Default: 50 (Seconds, Country dependent)

S8 Pause Time For Dial Delay

The time to pause for the pause dial modifier, “Comma”.

Range: 2-255

Default: 2 (Seconds, Country dependent)

S9 Carrier Detect Response Time

The time a signal is detected an qualified as a carrier. This timing lets your modem ignore spurious signals that are the same frequency as the carrier. Higher S9 values reduce the

Range: 1-255 6 tenths of a second

Default: 6 (0.6 seconds)

S10 Lost Carrier To Hang Up Delay

The time the modem waits before hanging up for carrier loss.

Range: 1-255 tenths of a second

Default: 14 (1.6 seconds)

S11 DTMF Tone Duration

The time for DTMF tone diali b ng and the time between the tone spacing.

Range: 50-255

Default: 95(95 ms, country dependet)